

Aviation Education News



Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

August 2002

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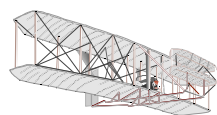
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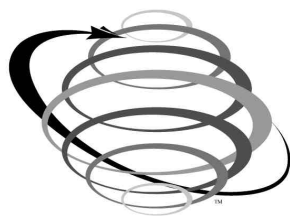
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**Centennial of Flight
Commission
Website**

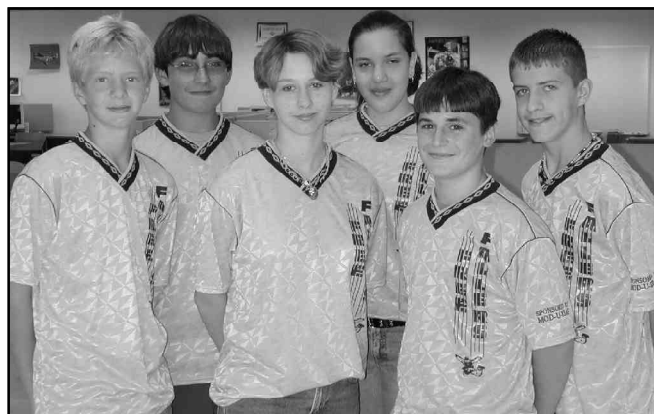
www.centennialofflight.gov



AVIATION WORLD'S FAIR 2003
NEWPORT NEWS • WILLIAMSBURG INTERNATIONAL AIRPORT
NEWPORT NEWS, VIRGINIA • APRIL 7-27, 2003
www.aviation-worlds-fair.com

Franklin County Team Places Second in National Competition

The Free Fallers, a group of students from Gereau Technology Center in Rocky Mount, recently placed second in national competition at Oshkosh, Wisconsin.



These rising ninth graders dedicated a large part of last school year, and their summer vacation, to prepare for an aviation-related

competition which took place during the 50th AirVenture, the largest fly-in airshow in the nation. The competition was based on flight planning, historical research, skit production, logbook preparation, and model aircraft building and flying.

The team members are, from left to right, Cameron Mitchell, Sam South-Finkelstein, Nicole Becker, Tiffani Remmert, Alex Burch, and Kyle Hodges. They were coached by Aviation & Aerospace instructors Ms. Sandy Sampson and Mr. Bob Keck.

In addition to the competition, the students had such experiences as meeting Eric Lindbergh (Charles Lindbergh's grandson), seeing the first commercial rocket-powered airplane fly, and talking with Eugene Cernan, the last astronaut to set foot on the Moon.

The students participated in this as part of the Wild Blue Wonders program (www.wildbluewonders.com) which is sponsored by the Experimental Aircraft Association and the Ford Motor Company. The local team was supported by Mod-U-Kraf.

If asked, the team would all agree that this was an incredible experience and they are proud to have presented Virginia at the national level.

Information prepared by Bob Keck

The Wild Blue Wonders program is a national-level competition sponsored by the Experimental Aircraft Association (EAA) and the Ford Motor Company. It is open to 6th, 7th, and 8th graders who dedicate much of their own time to preparing for competition. Local teams must prepare for regional competition. This year, regional competition was held in Hampton, Virginia at the Virginia Air and Space Center. The Free Fallers placed first which gave them the right to represent Virginia at the national competition. Oshkosh, Wisconsin is the site of national competition. Oshkosh is the home of AirVenture, the largest fly-in airshow in the United States. There are over 12,000 aircraft and 750,000 people attending. This is a major gathering of airplane enthusiasts, aircraft suppliers, and private, commercial, and military pilots. This year was the 50th airshow.

PRESIDENT'S NOTES

The NASA Langley Research Center's Office of Education (OEd) is working in collaboration with the Virginia Department of Aviation, and the Virginia Department of Education to maintain two way communication between federal and state education efforts.

NASA Langley Office of Education is partnering with the Embry-Riddle Aeronautical University to assist in educational programs for the Aviation World's Fair, which will be conducted at the Newport News/Williamsburg Airport, next spring. The educational efforts will be conducted between April 13-27, 2003. Dr. Richard Byles, director of education, from the Virginia Aviation and Space Center will also be providing hands-on activities, which will be tied to the Virginia SOLs.

The Experimental Aircraft Association (EAA) is offering many attractive activities for students and teachers; they can be reached at the following site <http://eaa.org/education.html>.

The Young Eagle's program has flown over 830,000 students and is trying to reach their goal of flying one million students before the 100 Anniversary of Powered Flight on December 17, 2003. The web site is as follows: <http://www.youngeagles.org/>

AIAA has openings for positions for teachers to become "Educator Associates". The benefits are as follows: Participation in local AIAA activities, attend AIAA conferences free, tap into AIAA clearinghouse of aerospace information, gain recognition for efforts in education and lastly, qualify for up to a \$200 grant to push your science, math, or related academic agenda forward. They have developed innovative programs for obtaining an AIAA Foundation Education Classroom Aid Grant. For information contact: Lisa Bacon, 800-639-AIAA, ext. 527 or via e-mail lisab@aiaa.org.

Peter D. Thomas
(ViGYAN, Inc.)
Aerospace Education Programs Manager
Office of Education
NASA Langley Research Center



Group photo of one of NASA's summer Teacher's Workshop Programs taken at Kitty Hawk. VASEF President, Pete Thomas, is third from left.

VASEF AVIATION EDUCATION NEWS is published quarterly in support of aviation education in the Commonwealth of Virginia by the Virginia Department of Aviation.

VASEF BOARD

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Please send story ideas, photographs, calendar events, and other items for possible inclusion to:

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<http://www.doav.state.va.us> (Internet)



VASEF PURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

International Aviation Art Contest

Theme for 2003: "100 Years of Powered Flight"

Purpose

To motivate and encourage young people to become more familiar with and participate in aeronautics, engineering, and science.

As young people decide what sort of artwork to create to interpret the theme of the contest, they must think about flight. They may also need to do some research to determine how to depict the facet of flight they ultimately choose.

The realm of flight is so wide that the opportunities for creativity are endless! Just view some of the winners from previous years (www.fai.org/education/contests/artists) and you will be amazed at the multiple interpretations of a single idea.

The theme of the 2003 International Aviation Art Contest is "100 Years of Powered Flight."

Brochures describing the competition, the deadlines (usually the beginning of February), and how to submit entries to the Virginia state contest (the first level of the competition) will be mailed to each Virginia public school early in the 2002/03 school year.

If you don't receive a brochure contact the state sponsor listed at the end of this article.

Age Groups

Entries will be judged in 3 classes (determined by the age of the entrant on December 31, 2002).

- I. Ages 6 to 9
- II. Ages 10 to 13
- III. Ages 14 to 17

Levels of Competition

State Awards

Entries in each age group will be judged and state winners and runners up selected. Winners will receive a certificate and recognition from their state. The top three entries in each age group will be forwarded to Washington, D. C. to participate in the national competition.

National Awards

A national winner and two runners up will be selected from each age group. All national winners will receive certificates, ribbons, a framed reproduction of their artwork, and a professional work of art compliments of the American Society of Aviation Artists.

International Awards

The national winners and runners up in each age group will be forwarded to FAI for international judging. Winners of the international competition will receive certificates and gold, silver, or bronze medals.

Contest Rules

Size

Artwork size should be 11 x 17 inches. Due to international criteria, 8.5 x 11 entries are not eligible. Artwork must not be framed, mounted, or outlined with borders.

Medium

All artwork must be hand-made using any of the following media: watercolor, acrylic or oil paints, indelible markers, colored pencils, felt-tip pens, soft ball-point pens, indelible ink, Crayola, or similar indelible mediums.

The following media are NOT permitted: pencil, charcoal or other non-permanent medium, computer generated artwork, or collage work involving the use of photocopies.

Certification

Parent, guardian or art teacher must certify authenticity of artwork and the age of each artist. (U.S. judges will issue certificates of authenticity to national winners for international competition.)

Reproduction Rights

Once received, entries will become and remain the property of the Federation Aeronautique Internationale (FAI) or state sponsor and may be used for a variety of purposes.

Sponsors

The 2003 International Aviation Art Contest is sponsored by the National Aeronautic Association, National Association of State Aviation Officials, National Aeronautics and Space Administration, and the Federal Aviation Administration, in cooperation with the Federation Aeronautique Internationale (FAI).

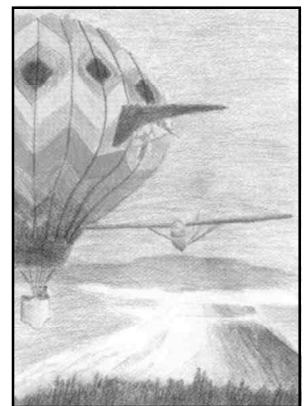
Virginia Sponsor: Virginia Department of Aviation
Attn: Betty Wilson
5702 Gulfstream Road
Richmond, Virginia 23250-2422
(804) 225-3783

News Update:

Ruthann Jones of Dale City, Virginia, who we announced last May as the United States National winner for 2002 (Category I), has been selected as the International winner in her age group.

She competed against entries from twenty-one (21) other countries.

Congratulations Ruthann!!!



The Virginia Department of Aviation Teachers Grant Program is entering it's fifth year - Applications for 2002/03 will be mailed to each public school and will be accepted until November 30. For more information visit the Department's web site at www.doav.state.va.us.

Virginia Department of Aviation Teachers Grant Application

Your Name: _____

If you are requesting the grant as a member of a team, please list team members names below:

Mailing Address: _____

City/State/Zip: _____

Circle one: home address school address

Your Telephone Number: _____

Circle one: home telephone school telephone

Your E-Mail Address: _____

School Name: _____

Grade Taught: _____ Subject: _____

Describe your lesson idea - must utilize some facet of aviation: (in 150-500 words)

Attach additional sheets and/or lesson plans, if prepared.

What Learning Outcomes are you looking for from this project?

If funded, how do you propose to share this lesson with your colleagues?

Amount Requested: _____

What will the grant money be used for: _____

If selected, I agree that before the end of the school year in which I receive this grant, I will complete the above project; that I will provide a final report on the program, including copies of lesson plans developed (at least one is required), a summary of how well the program worked, how many students benefited from the program, a shopping list of materials (and costs) for supplies, and receipts for supplies purchased for the program. I understand that the Virginia Department of Aviation will pay for or reimburse only those amounts approved in the original grant and may publish lesson plans and program summaries in their aviation education publications (with credit given).

Signature: _____

National Air and Space Museum Calendar

Every Wednesday at noon, a Museum staff member talks to the public about the history, collection, or personalities related to a specific artifact or exhibition in the Museum. Talks typically last 10-15 minutes and begin at the Museum "Great Seal", in the Milestones of Flight gallery on the first floor.

Curator's Choice Lectures:

September 18, 2002

GOES: Next Generation Weather Satellite
Andrew Johnston

September 25, 2002

Jimmy Doolittle's 1925 Schneider Cup and the Curtiss R3C-2
Dik Daso

October 2, 2002

Destinations: Airlines Posters, c.1976
Joanne London

October 9, 2002

New Images from the Mars Odyssey Spacecraft
Jim Zimbelman

October 16, 2002

Fairchild FC-2: the All-Purpose Monoplane
Dorothy Cochrane

October 23, 2002

The Apollo Lunar Surface Experiments
Bruce Campbell

October 30, 2002

The Hubble Backup Mirror: How We Got It
David DeVorkin

Saturday, September 28, 2002

Monthly Star Lecture

"Autumn Starlights: Nights of the Flying Horse"

Steve Mitch, Planetarium Director, Benedum Planetarium, Wheeling, WV

Exhibitions

Aerobatic Champions (thru Spring 2003)

Features Betty Skelton's Pitts S-1C "Little Stinker" and Leo Loudenslager's Laser 200, both flown in world championship aerobatic competition.

Lockheed Martin IMAX â Theater

Opening September 20

"Straight Up! Helicopters in Action"

Helicopters have long been a staple of action movies, but it's unusual to have these impressive machines play a starring role. This film features more than 30 helicopters. Visitors will fly along with skilled helicopter crews on a series of pulse-pounding adventures that demonstrate the many roles these powerful aircraft play in our daily lives. Actor Martin Sheen is the narrator.

For more information visit: www.nasm.si.edu

Embry-Riddle Seeks Educational Programs for AWF 2003

The Aviation World's Fair™ and Embry-Riddle Aeronautical University have joined forces to create a highly interactive, entertaining and educational series of programs that will be featured at the Newport News/Williamsburg International Airport Fairgrounds next April.

Embry-Riddle is actively seeking nominations for programs, speakers and presentations that meet these criteria. The Aviation World's Fair™ offers a unique, once in a lifetime opportunity to showcase the exciting world of aviation and aerospace.

Embry-Riddle invites nominations of industry experts, scholars, speakers and educators who may be interested in sharing their experiences and expertise. Programs may appeal to youth audiences, aviation enthusiasts or professionals. Each day of the Fair will highlight one or more of the many facets of aviation and aerospace including business aviation, air racing, the military, women in flight, experimental aircraft and many others.

To nominate a program, visit <http://www.awf2003.com/howtoparticipate/generalinfo.htm> and click on Educational Providers at the bottom of the page, or contact the University Relations Office at 386-226-6823.

Visitors will be treated to programs that illustrate the colorful history of aviation and the fantastic future of flight as well as the influence aviation has on our everyday lives. Hands-on workshops, interactive learning centers and recognized speakers will provide programs with appeal for everyone, from the youngest pilot-to-be to seasoned working professionals.

Mark your calendar and plan your itinerary to become part of this very special celebration of our nation's centennial of flight. The Aviation World's Fair is open to the public April 13 through 27, 2003. Visit www.awf2003.com for complete details.

Student Aviation Design Competition Winners Named

NASA and the Federal Aviation Administration (FAA) honored students from seven universities as winners of the 2002 University Student Competition, an annual competition created to foster student interest in revolutionizing general aviation. Winning projects were recognized at an awards ceremony at the annual Experimental Aircraft Association's (EAA) AirVenture fly-in at Oshkosh, Wis.

Senior representatives from NASA's Langley Research Center, Hampton, Va., and the FAA presented the awards on behalf of NASA's Office of Aerospace Technology and the FAA.

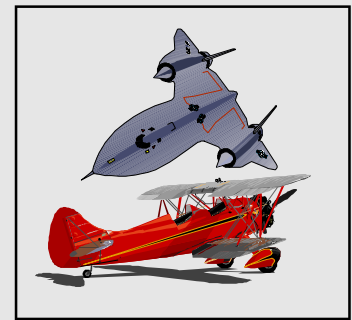
Virginia Universities which placed among these top seven included:

George Mason University, Fairfax, Va., which tied for second place in the systems innovation category. The Virginia team analyzed the potential for fractional ownership of small jets, and proved the concept is a practical alternative to current air travel. An honorable mention went to a second team from George Mason University for its independent and ground-based air traffic management system.

In the technology innovation category, the University of Virginia's Engineering Department, Charlottesville, took first place for "Alaris," an aircraft concept that produced outstanding performance by combining a lightweight wing and body with a powerful turbofan engine. A team from Virginia Polytechnic Institute, Blacksburg, and Loughborough University, Leicestershire, United Kingdom, took second place. Their joint effort resulted in "Iklos," a uniquely designed aircraft that allows very short takeoffs and landings.

All winners received a cash award, a commemorative trophy for their institutions and certificates of appreciation.

The 2003 competition will be broadened to include a separate high school division. Details will be available Sept. 9 at: <http://avst.larc.nasa.gov>



VIRGINIA AVIATION MUSEUM CALENDAR

September 19, 2002

Guest Speakers Series

Lou Divone shares his love of aviation history, especially separating facts and myths. His talk includes slides of rarely seen aircraft, such as Igor Sikorski's Il'ya Mourometz in Russia, long-range SVA fighters in Italy and Grigorovich float planes in Poland. Divone also shows slides of SPAD fighters and gives little-known facts on the SPAD.

7:00 p.m. free.

October 5, 2002

SR-71 Forum 2002

Join us as we celebrate one of the world's greatest aircraft - the SR-71 Blackbird. Participate in discussions lead by Blackbird professionals on the development and operation of the SR-71. For more information or to place a reservation, call (804) 236-3620. 9:30 a.m. - 5:00 p.m.

October 17, 2002

Guest Speakers Series

Richard Kirkland, former WWII fighter pilot and helicopter pilot in Korea, will discuss his new book *Tales of a Helicopter Pilot*. Awarded the Distinguished Flying Cross, six air Medals, and the Air Force Commendation Medal, Mr. Kirkland tells fascinating adventures of the uses of helicopters from the early Korean days to the present.

7:00 p.m. free.

For further information on events and schedules, call (804) 236-3622.

Aviation Education Corner

Experiment: Object Shape and Drag

Materials

- 3 identical sheets of notebook paper:
 - 1 crumpled into a tight ball
 - 1 smooth and flat
 - 1 rolled into a tight cone and secured with two short pieces of tape

Tape

Measuring Stick

Experiment Set Up

Crumple one sheet of notebook paper into a tight ball.

Tightly roll another sheet of notebook paper into a cone shape. Secure the flap with one small piece of tape at the smaller end of the cone and another small piece of tape at the larger end.

Measure two meters from the floor and mark that point. This will serve as the starting point for the drop.

Experiment Procedure

1. Using more than one person to hold the pieces of paper, hold all three pieces at the two meter mark. Hold the flat sheet of paper horizontally (or parallel to the floor).
2. Release all three at the same time.
3. Observe and record the order in which each piece of paper contacts the ground.
4. Repeat the drop four more times and observe and record.

	Flat	Cone	Ball
Drop #1			
Drop #2			
Drop #3			
Drop #4			
Drop #5			

Aviation & Space



Web Sites

Aviation World's Fair 2003 www.awf2003.com
 International Aviation Art Contest www.fai.org/education/contests
 Wild Blue Wonders Program www.wildbluewonders.com
 Young Eagles Program www.youngeagles.org

Experiment Log

1. State the problem.

QUESTION

(What do I want to know?)

How does an object's shape affect drag?

Will objects of different shapes, but same mass and weight have different amounts of drag?

Will 2 objects of the same mass, weight and material have different amounts of drag depending on their shape?

2. Form a hypothesis.

PREDICTION

(What do I think is going to happen?)

The more rounded an object is, the less drag it will have compared to a squarer or wider or flatter shaped object of the same weight (or mass) because there will be less/smooth surface area to create drag.

3. Design an Experiment.

MATERIALS & PROCEDURES

(What steps will I take to do this experiment? What things will I need?)

Materials: 3 identical sheets of notebook paper: 1 crumpled into a tight ball, 1 smooth and flat, 1 rolled into a tight cone and secured with two short pieces of tape; tape; measuring stick.

Procedure:

1. Using more than one person to hold the pieces of paper, hold all three pieces at the two meter mark. Hold the flat sheet of paper horizontally (or parallel to the floor).

2. Release all three at the same time.

3. Observe and record the order in which each piece of paper contacts the ground.

4. Repeat the drop four more times and observe and record.

4. Perform the Experiment.

OBSERVE AND RECORD DATA

What information did I gather during this experiment?)

The flat sheet was always last.

Most of the time the cone hit the ground first with the ball right after.

A few times the cone and the ball hit at the same time.

5. Organize and analyze data.

(Make a graph, chart, picture or diagram)

See sample.

6. Draw conclusions.

(What do my results mean? Was my hypothesis right or wrong? Can I explain why?)

Because the flat piece always hit the ground last, it has the most drag. It has the most drag because its wide shape catches a lot of air (molecules) under it --- this makes it float. Both the cone and the ball are rounded shapes that allow the air to move smoothly around it, and not much air gets trapped underneath.

From *Exploring Aeronautics: A Curriculum in Aeronautics for the 5th through 8th Grade*, National Aeronautics & Space Administration

John R. Lillard Scholarship Fund Recipient

The 2002 John R. Lillard Scholarship (\$2,000.00) was presented to Christopher W. Emory who attended Halifax County High School in South Boston. Christopher plans to pursue a degree in engineering from Virginia Tech.

The John R. Lillard Scholarship Fund is administered by the Virginia Airport Operators Council (VAOC) and sponsored by VAOC and the Virginia Department of Aviation.

VAOC is an organization comprised of airport operators within the Commonwealth of Virginia. One of its objectives is to advance and promote educational opportunities and programs in the aviation industry within the Commonwealth.

Virginia Aviation and Space Education Forum Scholarship

The 2002 Virginia Aviation and Space Education Forum Scholarship (\$1,000.00) was awarded to Christy Lynn Heib of Colonial Forge High School in Stafford. Christy plans to pursue a degree in Aviation Management from Embry-Riddle Aeronautical University.

Applications for the 2003 Virginia Aviation and Space Education Forum Scholarship will be sent to high school guidance departments this fall.

Educating the Next Generation

Louisa Airport at Freeman Field in the Louisa County Industrial Air Park provides tours to introduce children to the airport. Groups such as these preschoolers learn about the airport and their community.



Young Eagles Recognition

Ray Judd is one of the most active Young Eagles pilots you'll find anywhere!

Ray, from Huddleston, Virginia, received the Top Eagle Award, presented at the 2002 Virginia Aviation Awards Banquet, for flying the most Virginia Young Eagles this past year.

He also received the Outstanding Field Representative Award at EAA Airventure this past July.

Since 1992, Ray has given over 700 Young Eagles rides in his Mooney. He and wife Lorraine are partners with Ray flying youngsters and Lorraine handling all the paperwork on the ground.

The Experimental Aircraft Association's Young Eagle's Program (www.youngeagles.org) has a goal of flying one million young people by December 2003 (the 100th anniversary of powered flight). So far almost 830,000 Young Eagles have flown!

Holland is Virginia's Aviation Person of the Year

Kim Holland, Williamsburg-Jamestown Airport's aviation educator and resource person, was named Virginia's Aviation Person of the Year for 2002.

The award was presented at the annual Virginia Aviation Awards Banquet held on Thursday, August 22nd at the Ramada Plaza Resort in Virginia Beach.

For ten years, Kim has worked with teachers and youngsters from local schools providing a multitude of resource materials, conducting airport tours, and acting as a source of information about aviation and airport topics.

She also has been very active in recruiting student pilots, promoting aviation safety, and increasing public awareness about the value of aviation in the Commonwealth of Virginia.



Kim Holland receives her Virginia Aviation Person of the Year Award from Charles Macfarlane, Director, Virginia Department of Aviation.

SCIENCE MUSEUM OF VIRGINIA CALENDAR

EXHIBITIONS

25th Annual RF&P Model Railroad Show and Sale. Sept. 21-22, Sept. 28-29

MAX FILMS

Thrill Ride: The Science of Fun - May 28-Sept. 27

Lost Worlds: Life in the Balance - Apr. 15 - Dec. 31

Titanica - Sept. 28 - Dec. 31

MULTIMEDIA SHOWS

Hubble/Night Sky - Jun 24 - Sept. 20

Rocks in Space - Sept. 21 - Jan. 12

LIVESKY: Informal "live" planetarium presentation of the month's celestial events. Third Friday of every month (except Oct.)

SKYWATCH: Third Friday of every month (weather permitting) on the front lawn.

24-Hour Information: (804) 367-0000

Box Office: (804) 367-1080

24-Hour Skywatch Information: (804) 367-8277

24-Hour TDD Information: (804) 367-9760

General Information - TDD: (804) 367-6552

Group Scheduling: (804) 367-6552

Home Page: <http://www.smv.org>

VIRGINIA AIR AND SPACE CENTER CALENDAR

TRAVELING EXHIBITS:

Hubble Space Telescope - Opening Fall 2002

IMAX FILMS:

Apollo 13 - Opening Sept. 20

Straight Up! Vertical Flight - Opening Fall 2002

SIGMA SERIES LECTURES:

Small Aircraft Transportation System:

The Vision for Wings on America

Bruce J. Holmes - Sept. 10, 7:30 p.m.

Emergency Preparedness and Response

Oct. 1, 7:30 p.m.

Bird/Animal Flight

Nov. 5, 7:30 p.m.

Call (804) 727-0900 for showtimes

Visit the Center's Home Page:

<http://www.vasc.org>

Visit the Teacher Resource Center Home

Page: <http://seastar.vasc.mus.va.us>

Calendar of Events

September 14, 2002

11th Annual Louisa County Air Show will take place at the Louisa County Airport/Freeman Field from 11:00 a.m. - 4:00 p.m.

September 21, 2002

Plane Pull to Benefit Special Olympics Virginia will take place at Dulles International Airport. Visit www.planepull.com for more information.

September 20-22, 2002

Neptune Festival Airshow 2002 will be held at NAS Oceana near Virginia Beach. Visit www.neptuneairshow.com for more information.

September 28, 2002

7th Annual Wings and Wheels Airshow and Carshow will be held at Hummel Air Field in Topping, VA. Visit www.wingsandwheels.us.

October 5-6, 2002

EAA Chapter 186 Fall Fly-In will be held at Winchester Regional Airport. For more information e-mail EAA186@yahoo.com.

October 12, 2002

Culpeper Regional Airport Annual Air Fest will take place at Culpeper Regional Airport. For more information visit www.co.culpeper.va.us.

For more events visit: <http://www.doav.state.va.us/calendar.htm>.

Aviation Education Supporters:

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.

_____ Regular Membership \$25.00 annually (July - Dec. \$12.50)

_____ Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)

_____ Corporate Membership \$100.00 annually (July - Dec. \$50.00)

_____ New Member _____ Renewal

Date: _____

Name: _____

Name of Organization: _____

Occupation: _____

Address: _____

City: _____ State _____ Zip _____

Telephone _____

Please Return to: Tom Tyndall, VASEF Treasurer
5702 Gulfstream Road
Richmond, Virginia 23250-2422

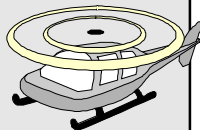


VASEF Aviation Education News
5702 Gulfstream Road
Richmond, Virginia 23250-2422

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Standard
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Inside:

**Franklin Co. Students
Compete in
National Contest**



2003 Int'l Aviation Art Contest

2003 Aviation Teacher's Grant Program

Please Post for Teachers